

Listing of Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Claims:

Claims 1 - 80 (Cancelled)

81. (Presently Amended) An apparatus comprising

at least one processor;

at least one antenna array for ~~producing~~ transceiving a plurality of communication beams;

one or more media comprising processor-executable instructions that are capable of being executed by said at least one processor, the processor-executable instructions adapted to direct the apparatus to perform steps comprising:

receiving a plurality of ~~a plurality of communication beams~~ beam packets via at least one communication beam with said antenna array, each communication beam packet comprising a single source address;

monitoring at least one received-signal-characteristic, representative of propagated arrivals ~~on the apparatus~~ at a single antenna array, for a plurality of said packets that relate to a single source address; and

detecting a wireless interloper if a discrepancy is determined to exist with regard to ~~propagation~~ said at least one received-signal-characteristic relating to a single source address propagated to said single antenna array of the apparatus.

82. (Previously Presented) An apparatus according to claim 81 wherein the detecting step is performed without requiring additional receiving, monitoring, detecting, or location-triangulating assistance from other apparatus nodes in a network.

83. (Previously Presented) An apparatus according to claim 81 wherein the monitoring step for a plurality of packets related to a single source address comprises:

logging and updating at least one received-signal-characteristic selected from the group comprising: arrival delay, arrival direction, offset in arrival directions for multipath, carrier frequency offset, and direction-indexed path signal strength.

84. (Previously Presented) An apparatus according to claim 83 using a histogram to represent the quantized distribution of at least one received signal characteristic.

85. (Previously Presented) An apparatus according to claim 84 wherein the height of a histogram bin indicates the number of occurrences that a quantized received-signal-characteristic falls into that bin.

86. (Previously Presented) An apparatus according to claim 85 wherein a binned occurrence is removed when it ages beyond a preset limit.

87. (Presently Amended) An apparatus according to claim 81 wherein the detecting step further comprises:

detecting whether the distribution of one or more received-signal-characteristics monitored over a first plurality of packets is commensurate with that monitored over a second plurality of packets and wherein whether said second plurality of packets is not identical to said first plurality of packets.

88. (Presently Amended) An apparatus according to claim 81 wherein the detecting step further comprises:

determining whether a bi-modal distribution appears, responsive to an alarm threshold, when one or more of said received-signal-characteristics are monitored over a plurality of packets.

89. (Previously Presented) An apparatus according to claim 81 wherein the processor-executable instructions are adapted to cause the apparatus to perform the further step of: if a wireless interloper is detected in the detecting action, countering the interloper.